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ABSTRACT

The decision making teaching module is one of a series of six modules prepared by Project SPICE (Special Partnership in Career Education) as a means of providing career awareness information to educable mentally handicapped students (ages 11-to-13 years). After an overview, a module profile is provided which charts the units, the activities in each unit, and the resources or materials needed for the unit. The units included in the module are "Thinking About Yourself", "Occupation Information", and "Selecting an Occupation". An eight-question assessment test is included for use prior to the unit activities. Appended are student resource materials with the following titles - "Putting Yourself in the Work Picture", "Thinking About Yourself", and "Getting Information About Occupations". (PHR)

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PROJECT S.P.I.C.E. SPECIAL PARTNERSHIP IN CAREER EDUCATION

DECISION MAKING
TEACHING MODULE

U S DEPARTMENT OF HEALTH, EDUCATION & WELFARE NATIONAL INSTITUTE OF EDUCATION

SEPTEMBER, 1978

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Title VI of the Civil Right: Act of 1964 states: "No person in the United States shall, on the ground of race, color, or national origin. It excluded from participation in, be denied the benefits of, or be subjected to discrimination under any ram of activity receiving Federal financial assistance." Title IX of the Education Amendments of 1972, Publ: Am 92/318, states: "No person in the United States shall, on the basis of sex, be excluded from participation in, be defied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance." Therefore, career education projects supported under Sections 402 and 406 of the Education Amendments of 1974, like every program or activity receiving financial assistance from the U.S. Department of Health, Education, and Welfare, must be operated in compliance with these laws.

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INTRODUCTION

Project S.P.I.C.E. (Special Partnership In Careor Education)
was conceived as a means of providing career awareness information
to intermediate aged educable mentally handicapped students. Six
modules have been developed for the Project S.P.I.C.E. curriculum.
These six modules are designed to meet the following elements of
the National Standard Career Education Model:

- 1. Career Awareness
- 2. Educational Awareness
- 3. Economic Awareness
- 4. Beginning Competency
- 5. Decision Making
- 6. Employability Skills
- 7. Self Awareness
- 8. Attitudes and Appreciations

The six modules are entitled:

- 1. Self Awareness (Standard 7)
- 2. Career/Educational Awareness (Standards 1, 2)
- 3. Decision Making (Standards 4, 5)
- 4. Economic Awareness (Standard 3)
- S. Employability Skills (Standard 6)
- 6. Rights and Responsibilities (Standard 8)

Each module follows the same format: an overview and an activities section.

The overview includes: Module Objective; Student Performance Objectives; Module Organization; Module Utilization; Assessing Student Activities.

Following the overview are the activities for the module.

The directions in the overview inform you of any necessary, additional materials needed for the completion of the module.

Also, estimated time spans are included to help you decide how the materials could be used in the classroom.

The modules are not intended to be strict rules for implementing a program, rather they are to be considered as guidelines and suggestions. You should feel free to alter, add, exclude, or ignore any of the activities included in the modules.

Materials for the Project S.P.I.C.E. Curriculum include:

- Original materials designed by Project & P.I.C.E. personnel and teachers.
- 2. Materials adapted from The Valuing Approach to

 Career Education, 3-5 Series, published by

 Education Achievement Corporation.
- Materials from the State of Florida, Department of Education, Division of Vocational Education, Employability Skills Series.
- 4. Commercially produced materials from:
 Nalt Disney Productions
 'Society for Visual Education
 McDonald's Corporation



The career awareness program you establish for your students must meet their needs, just as Project S.P.I.C.E. met the needs of our students. Remember, Project S.P.I.C.E. is not a curriculum you introduce in place of an existing program, but more importantly, an integration into your on-going curriculum.

Welcome to Project S.P.I.C.E. We hope you find it as exciting and successful as we have.

OVERVIEW

MODULE OBJECTIVE

The student will demonstrate the ability to apply information and values to the process of making decisions in the selection of occupations and be able to demonstrate selected skills in the successful performance of each occupation.

STUDENT PERFORMANCE OBJECTIVES

The student will be able to:

- List two kinds of information about self to use when deciding on an occupation.
- List two ways to find out about his abilities, interests, work preferences and values.
- List two major types of job information to collect before deciding on an occupation.
- 4. List two ways to find out about a specific occupation.
- 5. Select three occupations for skill development.
- Name and demonstrate three skills required for each occupation selected.

MODULE ORGANIZATION

This module is designed to help the student become aware of the process of obtaining information about self and occupations in order to make decisions about entering the world of work. Throughout this learning period, students will be making tentative occupational choices so that they can begin assessing themselves in relation to information about these occupations. The module is comprised of three units involving seven learning activities.

- Unit I: Students explore themselves, identifying personal traits and work preferences. They also discover how to find out information about themselves.
- Unit II: Students explore means of obtaining information about various jobs and occupations.,



Unit III: Students learn how to select an occupation and the consequences of their selections.

Units I and II should be implemented at the beginning of your program, while Unit III can be dealt with throughout the program.

During the course of this module, peer interaction, community career consultants and parental involvement should be intertwined with all other activities.

MODULE UTILIZATION

This module requires minimal preparation. All worksheets taken from Employability Skills Series, Choosing An Occupation developed by the State of Florida, Department of Education, Division of Vocational Education, are provided in the module. You will need to reproduce the pages for your students.

ASSESSING STUDENT ACHIEVEMENT

Student achievement can be assessed in two ways: (A) by evaluating the quality of each student's participation in the module and (B) administering the test at the end of this module.

(A) Students participate in a variety of learning activities, all of which are intended to help students achieve one or more of the objectives. Thus, you may establish performance criteria for each activity and evaluate student achievement based on student's participation in the learning activities. Informal review tests are provided for Units I and II.

In particular you may .nt to assess student performance on activities in Unit III. The activities in this unit involve the demonstration and performance of making a decision concerning an occupation and developing skills for that occupation.

(B) Student attainment of some of the objectives for this module can be measured in part by the true-false test provided at the end of the module. Directions for test administration are included. An answer key, and a table which relates each item on the test to the student objective with which it is associated, is also included.

wic	LEARNING ACTIVITIES	nescunces/materials	
UNIT 1: Thinking About Yourself			
ACTIVITY 1: Personal Traits	Discuss with the students infor- mation concerning occupations they know about and how they might perform that occupation.		
	Introduce the concepts of abilities, interests, work preferences and values.	Pages 3-5 Choosing An Occupation Activity Page 6	
	Neview student responses on their "I Can" Sheets and discuss how that information can be used in selecting an appropriate occupation.	Student "I Can," Sheet	
	Assist the students in comparing their abilities with those necessary in each occupation discussed.	Occupational profiles in Project S.P.I.C.L. Adds Color to Your Future Activity Book.	
		Student written profiles	
		Occupational Outlaak Handbaak	
ACTIVITY II: Getting Information About Yourself	Introduce the concept of salf- awareness and its' importance in making decisions about a future occupation.		
11			

MODULE PROFILE (CONT'D)

TOPIC	LEARNING ACTIVITIES	RESOURCES/MATERIALS
ACTIVITY II: (Cont'd)	Have the students read pages 7-11 to discover ways of finding out about their abilities, interests, work preferences and values. Students complete activity pages 12-14	Pages 7-11 in Choosing An Occupation Activity pages 12-14
ACTIVITY III: Identifying Your Work Preferences	Provide the students with additional insight into expanding their work preferences.	Activity Sheet pages 15-16 Self-Test page 17
UNIT II: Occupation Information ACTIVITY I: Types of Information	Introduce pages 18-20 in Choosing An Occupation. Through reading these pages the students will learn about the types of information they should have concerning various occupations. Pages 21-22 are activity pages for the students to complete.	Pages 18-20 in Choosing An Occupation. Activity pages 21-22 Self-Test page 23
ACTIVITY II: How to Get Occupation	Introduce pages 24-28 in Choosing An Occupation. These pages suggest a variety of ways to seek job information. Pages 29-33 available for the students to complete.	Pages 24-28 in Choosing An Occupation Activity Pages 29-33

MODULE PROFILE (CONT'D)

TOPIC	LEARNING ACTIVITIES	RESOURCES/MATERIALS
UNIT III: Selecting an Occupation	*	
ACTIVITY I: Selection	Ask the students to make a tentative occupational choice.	
	Encourage the students to think about the criteria for choosing an occupation and encourage them to discuss their choice and why they selected it.	
ACTIVITY II: Skills	Once an occupation has been selected, have the student make a checklist of the basic skills necessary to enter that occupation.	Paper and pencil
la .	Focus attention on the basic skills and encourage the students to work on the skills on their checklist,	
	Periodically review the checklists to evaluate individual progress.	
		Į

LEARNING ACTIVITIES

Unit I

Thinking About Yourself

Student Performance Objective: The student will be able to:

- 1. List two kinds of information about self to use when deciding on an occupation.
- 2. List two ways to find out about his abilities, interests, work preferences and values.

Activity One - Personal Traits

Introduce this activity by discussing with the students information concerning occupations they know about. Ask students to name an occupation in which they are interested. Ask them to state what they know about the occupation and how they might perform that occupation.

Explain to the students that they will now begin studying about traits. By having the students read pages 3-6 in Choosing An Occupation, they will become familiar with the concepts of abilities, interests, work preferences and values. Use this information to review what the students have listed on their "I Can..." Sheets, asking questions such as "Do you have enough information about yourself to select that occupation?" "Do you feel that it is an appropriate occupation for you?" etc.

From the students' "I Can..." Sheets (see Self-Awareness Module, Unit II) assist the students in comparing their abilities with those necessary in each occupation discussed.

Activity Two - Getting Information About Yourself

The students are becoming aware of the need for more information about themselves before making a tentative decision about a future occupation. Introduce pages 7-14 in Choosing An Occupation. By reading these pages, students discover ways of finding out about their abilities, interests, work preferences and values. Pages 12-14 are activity pages for the students to complete.

Activity Three - Identifying Your Work Preferences

As students become aware of occupations in relation to their abilities, interests, work preferences and values, they can begin to make decisions as to their choice of several realistic occupational areas. To provide students with additional insight into expanding their work preferences, distribute Activity Sheets 15, 16. Students will become familiar with the process of critically viewing an occupation in terms of their work preferences.

Unit II

Occupation Information

Student Performance Objective: The student will be able to:

- 1. List two major types of job information to collect before deciding on an occupation.
- 2. List two ways to find out about a specific occupation.

Activity One - Types of Information

Students are now aware of how to obtain information about themselves and are ready to begin the process of making decisions concerning an occupation. Introduce to the students pages 18-23 in Choosing An Occupation. From these pages students will learn about the types of information they should have concerning various occupations. Also included are two activity pages for the students to complete.

Activity Two - How To Get Occupational Information

Throughout the program, the students are talking with community career consultants and obtaining information about various occupations. Community Career Consultants are an excellent source of information. However, during the course of your program you will not be able to expose the students to every occupation that is available. They must be able to know where they can obtain more comprehensive views of the world of work. Introduce the students to pages 24-33 in Choosing An Occupation. Within these pages, students will discover a variety of ways to obtain job information. One activity page is available for the students to complete.

Unit III

Selecting An Occupation

Student Performance Objective: The student will be able to:

- 1. Select three occupations for skill development.
- 2. Name and demonstrate three skills required for each occupation selected.

Activity One - Selection

The students have learned the basics of occupation selection. Ask the students to make a tentative occupational choice. Stress tentative choice. Encourage students to think about the criteria for choosing an occupation and ask them to discuss their tentative choice and why they selected it.

Activity Two - Skills

Once an occupation has been selected, students must develop ckills that would be necessary to enter that occupation. By visiting and talking with a consultant, students can obtain a first-hand look at the necessary skills that can be learned now. This may involve an academic skill such as reading a paragraph, adding a column of numbers, following oral instructions, etc. The student should focus attention on the basic skills not the technical skills at this time. Have the students make a skills checklist, and encourage the students to work on the skills on their checklist. Periodically review their checklists and note progress made.

ASSESSMENT INSTRUMENTS

CHOOSING AN OCCUPATION

 Your parent's level of education is an important factor that you should think about in choosing an occupation.

TRUE

FALSE

Your values are an important factor that you should think about in choosing an occupation.

TRUE

FALSE

 Asking yourself questions is a good way to get information about your own interests and abilities.

TRUE

FALSE

 Your horoscope is a good source of information about your interests and abilities.

TRUE

FALSE

5. Special licenses may be a requirement of a job.

TRUE

FALSE

Chances for advancement are part of the information that you should get on your future in the job.

TRUE

FALSE

7. Looking at product ads in a magazine is a good way to get information about job descriptions, requirements and prospects.

TRUE

FALSE

8. Watching television is a good way to get information about job descriptions, requirements and futures.

TRUE

FALSE

Test Administration

Pre-Test

By administering the true-false <u>Choosing An Occupation</u> test before using any activities in the module, you will have information concerning the student's present knowledge of the information necessary in choosing an occupation.

The test consists of eight (8) true-false statements. Students may read the statement and circle the correct answer. For those students unable to read the test, it may be administered orally, with the student circling the answer.

Post-Test

The post-test should be given at the conclusion of the module. The post-test is identical to the pre-test. Directions for administering the post-test are the same as for the pre-test.

Test Answer Key

Objective No.		Item No.	Correct Answer
/ 1		1	<u> </u>
1		2 3	T T
2		4	Ē
3 [,] 3	•	, 5	Ť
4	5 4	7	F
4		0	

CHOOSING AN OCCUPATION

Selected Pages from

CHOOSING AN OCCUPATION PERSONAL FINANCES GOOD WORK

Developed by:

Career Education Center Florida State University

pursuant to a contract with the State of Florida, Department of Education, Division of Vocational Education.

Permission for reprinting of the selected pages has been obtained from:

State of Florida Department of Education Division of Vocational Education Ralph D. Turlington, Commissioner

NOTE: Page numbers in parentheses correspond to pages in the original text material.

APPENDIX - STUDENT RESOURCE MATERIALS

Putting Yourself in the Work Picture

Your choice of an occupation is one of the biggest decisions that you'll ever make. Before deciding on one, it's important to think seriously about what occupations will fit in with your personal traits and work preferences.

You have your own special combination of abilities (skills) and aptitudes (natural talents), plus interests, work preferences, and values. These abilities and other personal traits can make you really successful and happy in some occupations. In other occupations, you may have to work much harder to learn the requiled skills or adjust to the working conditions. That's why it's so important to consider your personal traits when thinking about occupations.



You need to find out as much as you can about different occupations, too. Some occupations require the skills and interests you have; others don't. You may find some occupations exciting, while others may bore you. If you take the time to explore them, you'll find some occupations that match you in almost every way.

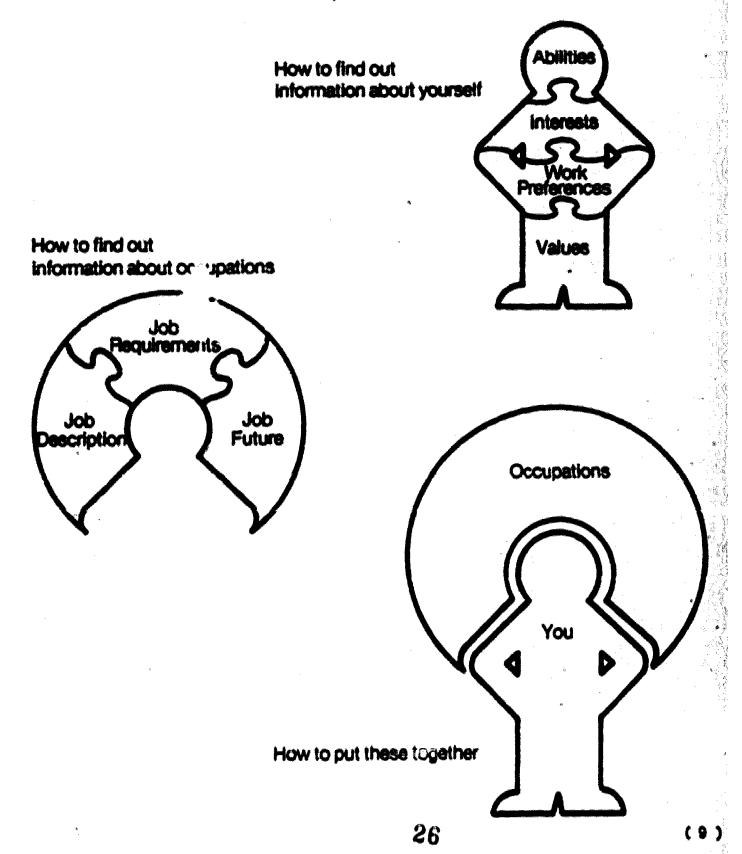
In learning more about the world of work, you'll hear the words job, cereer, and occupation used again and again. You may wonder whether there's any difference between an occupation, a career, and a job.

in this unit, the words occupation and career are used to mean the same thing. Both words cover the idea of the kind of work you do to earn your living. Occupations or careers can include many jobs, all of them in the same occupational area. For example, if you're a nurse, you may have a job as a nurse in the Army, then later at a doctor's office, and after that at a hospital. These separate nursing jobs are all within the area of your occupation, or career, as a nurse.

As you can see, deciding on an occupation doesn't mean choosing one job to do the rest of your life! When you choose an occupation, you select a general area or kind of work that you'd like to do. Each job within that occupation won't be exactly the same, but they'll all have something in common—such as the interests shared by most workers in the area, the need for certain skills or abilities, or the working conditions.

(8)

That's why you'll be thinking about yourself as you begin thinking about occupations. You'll be looking for matching traits in yourself and an occupation. This unit will show you:



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Thinking about Yourself

Types of Information about Yourself

You're very special—you're the only person in the world like you. So, you are the most important thing to think about when you're choosing an occupation. Your special combination of interests, abilities, work preferences, and values provides the best source of information about you. These items can tell you what to look for in a career if you want to be happy and really do a good job.



It's important to find out these kinds of information about yourself before you choose an occupation. If you don't, you may end up in an occupation that doesn't suit you. Look at what these people have to say:

Kelly: "After being on the job for several months, I've found out that I really don't like working with a group. I'd rather work by myself. Too bad I didn't know that before I took the job."

Jim: "My dad always wanted me to be an architect, and so I took a lot of courses in design and drafting. What a bore! A few months ago I started all over again in ornamental horticulture, since I've always been interested in plants. My grades are better, and I don't even mind studying now."

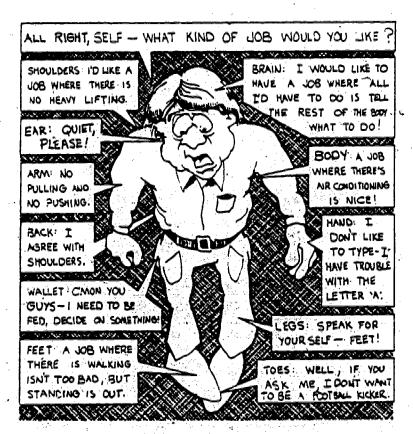
(10)

Alice: "I've been a secretary for three years. Lately I've begun to see that the thing I value most is being able to create something of my own, like a painting or a piece of pottery. Maybe I should have gone into art or design"

Doug: "I just failed the typing test at my first job interview. When I was having so much trouble in typing class, I should have realized I couldn't make a living as a typist."

Bill: "I wish I had taken a good look at myself before I rushed into the first job that came along!"

If Kelly, Jim, Alice, Doug, and Bill had spent some time getting to know themselves before they chose an occupation, they could have saved themselves a lot of dissatisfaction and unhappiness. What have their jobs taught them about themselves? Well, Kelly found out that she likes to work by herself, and not as part of a team or group. This is one of her work preferences. Jim learned that his real interest is horticulture, not architecture. Alice realized that she values being able to create something of her very own, like a painting, and Doug sees now that he has no ability in typing. Deciding on an occupation without knowing these kinds of things about yourself is like shopping for a pair of shoes without knowing the size you wear or the color you want.



There are four kinds of information that you should know about yourself when you are getting ready to choose an occupation:

- your abilities
- your interests
- your work preferences
- your values.

When you put these traits or characteristics together, they form a picture of you as a worker. You'll be putting together a picture of yourself in the first part of this booklet.

These four kinds of information can help you decide what kind of work you'll be good at and enjoy most.



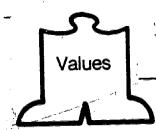
Your abilities are the things you do well. Can you fix things, sew, play a musical instrument, type, or cook? In what subjects do you make good grades—math, English, art, business, physical education?



Your interests are the things you like and enjoy doing. What are you interested in? What are your hobbies? Do you enjoy music or science, meeting people, selling things? Are you happiest when working outdoors?



Your work preferences are the feelings you have about the kinds of activities you do on the job and the conditions under which you wor. Do you like to work alone or with other people? Would you rather work with things or with ideas? Do you like to be the boss, or carry out someone else's directions? Do you prefer a set routine, or a challenging job with pew problems to solve almost every day?



Your values are the things that are important to you. Would you prefer a job that pays a lot of money, or a job that pays less but is more secure? What other things are important to you—responsibility, independence, power, the good opinions of others? Or do you value a job in which you can be creative, help others, or add to the world's knowledge?

When you put these things together they form a picture of you as a person in the world of work.

Activity:

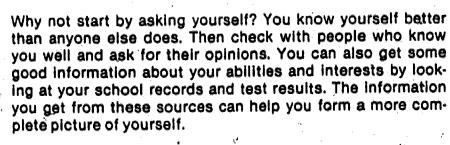
Identifying Personal Traits

List the four kinds of information about yourself that you should think about before choosing an occupation. Then define (describe) each one in your own words.

Kind of Information	Definition
2	Read each sentence and decide whether it states a person's interests (i), work preferences (P), values (V), or abilities (A). Then write the letter that describes the statement in the blank in front of each line.
	I like to work alone.
	I like to work with plants.
· · · · · · · · · · · · · · · · · · ·	I am very good with numbers.
, ,	I like to write stories.
	I think the most important thing in life is having lots of money.
,	I can type 60 words per minute.
	I can play the piano.
	I like sports.
	I think having lots of friends is important.
	I like to play the plano.
	I like to work with tools.
Top the second	I would rather have a low-paying job where I was certain I wouldn't be laid off than a high-paying job that might last only a short time.
	Nould rather take orders from someone else than have to make a lot of decisions myself.
	I made straight A's in shorthand.

How to Find Out about Yourself

Right now you're probably saying to yourself, "Okay. Everybody has different abilities, interests, work preferences, and values. But how do I find out these things about myself?"



Be careful, though, not to accept everything you find out about yourself without question. Some people will tell you what they think you want to hear, or what they wish were true. Grades and test scores sometimes tell only half the story—you may have scored poorly on an important test because you were nervous or sick, or made poor grades one year in school because you didn't know then that you needed glasses.

Don't make excuses for yourself, however—you know your shortcomings. But remember that your career choice should be based on all the information you can get about yourself.

Ask Yourself

You're the expert when it comes to you. You know more about yourself than anyone else does, but you may know yourself so well that you take your interests, skills, abilities, and other personal traits for granted. If playing the guitar, writing, or swimming is easy for you, you may not realize that you have a talent that other people work hard to achieve (master). Taking the time to think about your likes and dislikes, what you do well and what you don't, can pay off. The information you find out will be useful in helping you decide on a career.

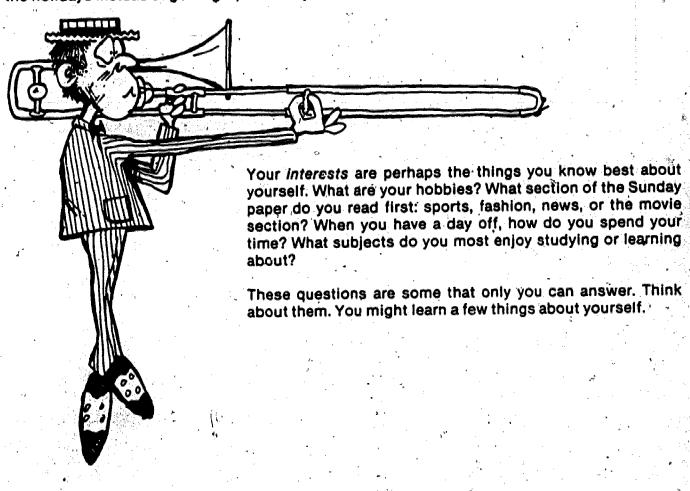
A good way to begin is with a self-inventory—a written description of your abilities, interests, work preferences, and values.



31

Think about the things you've done in the past that you've especially liked doing or really disliked. Ask yourself, "What made these good or bad experiences for me?" Was the task too difficult, or so easy that it bored you? In school, what subjects have you made good grades in? Now you're talking about abilities. Did you enjoy a particular project because you were working with other people as part of a team, or because you were in charge and made the decisions? Are you happiest when working alone, or with a particular group, like children, adults, or the handicapped? These are examples of work preferences.

To find out more about your values, think back over some of the decisions you've made. Did you turn down a chance to make some money so you could play softball or go to a concert? Did you volunteer to help at a community center during the holidays instead of getting a part-time job?



Ask People Who Know You Well

You know things about yourself that no one else knows. But other people may have noticed things about you that you take for granted or aren't even aware of. Other people can be a very good source of information because they see you differently than you see yourself. Often their views can complete the picture you have of yourself—like filling in the missing pieces of a puzzle.

Who should you ask for information about yourself? People like parents, teachers, friends, and employers who know you well can give you a worthwhile opinion. They may be able to tell you some things even you don't know.

Look at the following examples.

Janet was never a particularly shy girl, but there were times when she felt nervous and a bit uncomfortable meeting people. So she was quite surprised when one of her teachers encouraged her to apply for a job with the airlines. "Janet," her teacher had said, "You have just the personality for jobs serving the public. Your friendliness really puts people at ease." After asking a few other people, Janet found out that her nervousness was something only she could see—other people, like her teacher, saw her as a friendly and confident person.

Bob thought he wanted to be a pharmacist and work in the family drug store. All through school he worked hard to make good grades in his science courses. Bob never considered being an auto mechanic, until one Saturday afternoon when his best friend said, "If you're so interested in pharmacy, how come you spend all your spare time tinkering with old car engines and reading Auto Mechanics Weekly?"



Janet's teacher and Bob's friend were able to teil them useful information about themselves that neither had realized before. You'll notice, however, that Janet didn't accept what her teacher said until she got a second opinion. If Bob is smart, he'll remember that interests are only part of the picture. As you'll read later, Bob's values, abilities, and work preferences could make pharmacy a better career choice for him, in spite of his interest in cars.

The thing to remember as you begin getting information about yourself is to use several different sources of information. For example, don't be convinced that you have no ability in a certain area on the basis of just one fact or opinion. You may feel that you are not very good at math because your grades in algebra are low. Your shop teacher, however, may see you as having good numerical ability as he watches you work with the math problems in mechanical drawing. People like this, who know you well and see what you are capable of, can give you an opinion that means something. They may see things about you that you yourself are not able to see. Try to use what other people tell you to get a more complete picture of your abilities, and perhaps even your values and work preferences. But use information from others as only part of the picture. The person who knows you best is probably you!

Look at Your Grades and School Records

Where else can you get information about yourself? Another good place to look is your school records; they can give you a good idea of your strong and weak areas. What are your favorite subjects and why do you like them? Are those the subjects you make your best grades in? Notice the general direction your grades have taken in different subjects over the past few years. If your grades in math have been mostly A's and B's, then you probably have an aptitude (natural talent) for math.

One word of caution: Don't let your grades alone limit your choice of careers. Although grades show how well you've done in a course, they don't always show what you are capable of doing. Hard work, new and good ideas, and real interest can make the difference in whether you become good at something, or just fair. Be realistic, though. Your grades and your school records ought to give you a good idea of where your aptitudes and abilities lie.



Take Some Tests

All through school you've been taking tests: tests in the classroom (such as quizzes, midterms, and final exams), achievement tests (like the Florida eighth grade test), and college placement tests. You can use the results of tests like these to give you an idea of what your aptitudes and abilities are.

There are other kinds of tests you can take too, called *interest* tests, that will give you information to use in deciding on a career. These tests help you figure out your interests and compare them to the interests of people who are actually employed in a particular line of work. For instance, if you like helping people, you may want to go into teaching or nursing. If you're interested in taking one of these tests, see your guidance counselor or visit your local Florida State Employment Service. Many of these tests are given free of charge.

Remember that tests, like other people's opinions, are only one source of information. They should only be used to help you find out more about yourself. Test results cannot tell you what career to choose. But, when used together with other sources of information, they can help you get a more complete picture of your abilities, interests, values, and work preferences.

You can't choose a career until you know who you are and what you have to work with. So use all the sources of information that are available:

- yourself
- other people who know you well
- · your grades and school records
- tests.



Activity:

Getting Information about Yourself

)
,	C
	d.
,	Robert plans to go to engineering school after he graduate from high school, and so he has been taking math an science courses. His grades in these courses have never been above C. On the other hand, he hasn't made below an in English and French in two years. If Robert asked you for accident what his grades mean and what he should dabout a career, what would you say?
)	Melinda is taking a drawing course through a correspondence school. She receives her assignments through the mail, does them, and sends them back. She has never met he instructor. One day she gets some drawings back from the school marked, "YOU HAVE ABSOLUTELY NO TALENT FO ART!" Melinda doesn't believe it. Her parents and her friend
	she thinks they are, too. When her friend Jean asks her wishe isn't more upset, Melinda answers, "it's important to liten to what other people say about your talents—but it's jut as important that the person be someone who knows you will someone you trust to give you an honest opinion. The
	correspondence school instructor has only seen two of redrawings, and I've never seen anything she has done. He can I rely on that one opinion?" Do you think Melinda we



Activity:

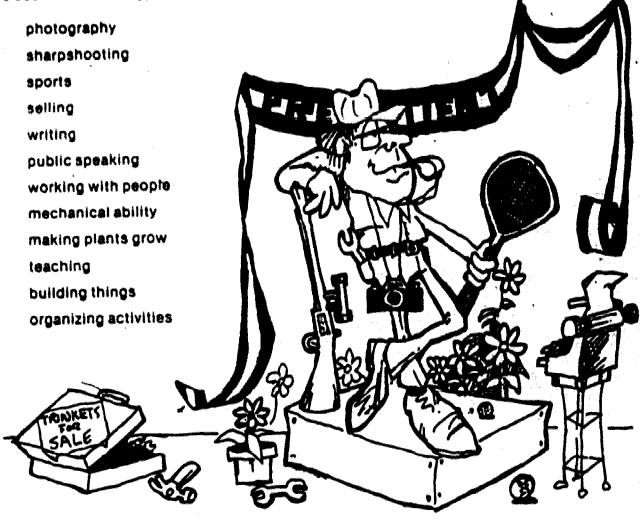
Rating Your Abilities

Everyone has different abilities. Knowing what you do best will help you figure out which occupations you may want to explore.

This chart shows some of the many kinds of abilities. For each one listed, put a check (>) in the box that you think best describes your ability level. Then look at where your checks are. They show what you think are your strongest abilities. (Remember, you can also get information about your abilities from tests, grades, and other people.)

	Verbal	Very High	High	Average	Low	Very Low
	Able to understand and use words and ideas in speaking and writing					
	Numerical				•	
£3.63	Able to work with numbers accurately and quickly					
	Reasoning				₹.	•
	Able to learn, to understand, and to solve problems					
Λ	Perception					
500/6	Able to see differences or simi- larities in the things around you					
[AXA]	Coordination					
(B)	Able to use feet, hands, and fin- gers easily and skillfully					

You probably have some skills and abilities not described in the chart. What are they? What do you do well? Think about your hobbies and activities away from school, as well as your school work. Some of the skills you've developed there could be useful in certain types of work. Here are some examples:



Make a list of some of the things you do well.					
				·	
·.		4			
₹					
F					

Activity: Identifying Your Work Preferences

One way to think about occupations is in terms of whether a person spends most of his/her time working with people, things, or information. Mechanics and construction workers, for example, spend most of their time working with things and equipment. In other jobs, such as nursing or counseling, most of the workday is spent working with people. Mathematicians, law clerks, bookkeepers, computer programmers, and scientists work mainly with information—facts, figures, and ideas.

	ideas.	
Of course, most jobs involve all the formation—but in different amound you prefer to spend most one you'd like most, and a 3 by the	unts. With which of these of your time? Put 1 by the	working with people working with things working with information (facts, figures, ideas)
· 2	Choose the work situation you below by placing a check (~) if	ou prefer in each of the pairs n the correct boxes.
	☐ doing something different☐ doing the same thing every	every day day
y P	taking orders from another giving directions to others	person
	working alone most of the to working with other people	lime
3	tions that you would dislike	of the following working condi- very much—so much that you y job that involved that type of
heavy physical work sitting for long periods standing for long periods dangerous work extreme heat or extreme cold having to work overtime, nights, or weekends high pressure work; mak- ing important decisions	 □ having to wear a uniform □ getting very dirty or greasy □ all outside work □ all inside work □ routine, unchanging work (doing the same thing over and over) □ other (Write any other very service of the same thing over and over) 	loud noise or vibration traveling most of the time working in a large city working out in the country working alone most of the time work in which deadlines are always a part of the job working condition that would
that affect many people	bother you a lot.)	

Activity: Rating Your Job Values

What is most important to you in a job? Since most people work to earn a living, the pay is usually important. But a career should give you more than money: it should fulfill (meet) some of your personal needs or values. The job values listed below are ones many people find important. Look them over, and add any other ones you think of. Then rate the values on the list below by putting a check (>) in the column that shows how you feel about them.

	Not important to me	Important to me	Very important to me
Job security. Do I want a job which is steady—one that I can count on?	and and		٥
Fame. Do I care a lot about whether people	C	you. hand	0
snow about me and my work? Service to others. Do I want a job in which I	prov. Natori	C	
Money. Does the amount of money I earn	gaz-v	O	٥
mean a lot to me? Personal satisfaction. Do I want a job that will give me a feeling of doing something worthwhile?	orms Marcine ,	٥	0
Respect. Do I want people to admire and look up to me?	252		о О
Challenge. Do I like solving new and difficult problems? Do I like to work hard, to the limit of my ability?	i mei		
Creativity. Do i want to do work that depends on my own new ideas?			٥
Interest in knowledge. Do I want a job in which I will discover new things?		_	5
Enjoyment. Does my work have to be lun?	, 0.00 M		
Time. How important is it to me to have me evenings and weekends free—no working overtime?	_		٥
Power. Do I want a job where I can make the decisions and be the boss?		califu.	x
(If there is something else that would be ver important to you in a job, write it here.)	y least		

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Name		5. ₁					:		44.7
Hamo		17		_			-		
•	*		٠.	6					1 4
Date					 	٨.			

Self-Test

Objective 1

Name	four	kinds	of	information about	yourself	that	you
should	i đeu i	in choo	sin	g an occupation.	. •	<i>:</i> •	

1	<u>;</u>		- 4		*
2			- -	:	
Z .			ņ		
3		<u> </u>			
			υ. 	4	

Objective 2

List three ways to find out information about yourself.

4	100					
7			 			
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$\boldsymbol{\alpha}$		1	\$			

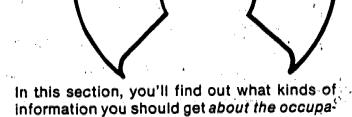
Getting Information about Occupations

To make a wise decision about anything, you need to know what your choices are. When making a decision about something as important as your future occupation, you'll want to spend time exploring the many different careers that are open to you.



In the first part of this booklet, you learned about the kinds of information about yourself that you need to help you choose an occupation.

Occupations



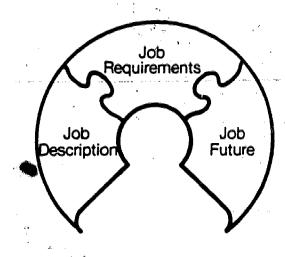
Types of Information about Occupations

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tions themselves.

You really don't know much about an occupation until you know the description of the job, the requirements for the job, and the job future.

The job requirements are those things that you must have in order to get a job, such as a certain amount of education or training, special abilities, work experience, or special licensing. Special abilities are the skills needed for a particular occupation—like being able to read music to be a music teacher, or knowing sign language to work with the deaf. Special licensing or certification is required to work as a registered nurse, a licensed plumber, an airplane pilot, or a truck driver.



Job requirements like these are important information to look for when you are exploring an occupation. For instance, to be an accountant you need a college degree and high numerical ability. As a beginning auto mechanic you may be able to learn the trade on the job, but you should have mechanical ability. Mechanics are also required to have a driver's license and their own hand tools. In addition, work experience is required for many jobs.

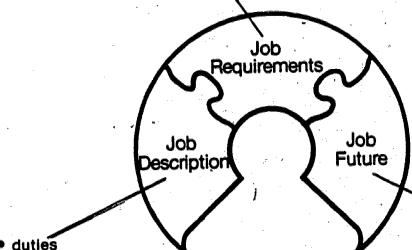
The job description tells you about the occupation itself: what the duties are, how much it pays, and what the working conditions are like. For example, depending on the particular field of accounting, an accountant's duties may include auditing books, preparing tax forms, or providing information to help executives make business decisions. Experienced accountants earned between \$17,000 and \$29,000 a year in 1974. The working conditions are usually those of most office jobs—indoors, working mainly with numbers and information.

The auto mechanic's duties usually include performing maintenance; locating the cause of mechanical problems; using test equipment, tools, and manuals; and making repairs. Earnings for a skilled mechanic working for a dealer averaged about \$7 an hour in 1974. Working conditions often include long hours, handling greasy and dirty parts, and lifting heavy objects.

The job future includes the employment outlook for an occupation and the chances for advancement within the occupation. The employment outlook tells you whether the career you want to prepare for will still need employees when you finish your education and training. For example, employment in space program occupations went down from 1.4 million workers in 1963 to 750,000 workers in 1974. The employment outlook is better for some occupations than others; for example, auto mechanics and accountants will continue to be in demand.

The chances for advancement are the opportunities for moving up in a job. Experienced auto mechanics with leadership ability can work up to service manager or shop manager. Accountants have many chances for advancement to supervisory or executive positions. Chances for advancement are not good in all occupations, however. For example, power truck operators have limited opportunities for advancement, although a few operators may become supervisors.

- education and/or training special licenses or certification
- special abilities
- work experience



- salary (pay) working conditions

- employment outlook chances for advancemen

Types of Information about Occupations

Activity: Identifying Types of Job Information

1

Below are some words that you will come across as you explore occupations, but the letters are all scrambled. Try your luck at unscrambling them. Use the list below for clues.

Types of Information	Examples	
Job Requirements	education and/or training special licenses or certification special abilities work experience	
Job Description	duties salary (<u>pav)</u> working conditions	
Job Future	employment <u>outlook</u> chances for <u>advancement</u>	
KOOLTOU ,		
NIRAGNIT		
CADEUNIOT		
CIEEPRXNEE		
ESTUID		· · · · · · · · · · · · · · · · · · ·
ILCESNSE		
YPA		
NEVAMDACNET		
KGINROW NOSDIITOCN		
ISILTBIAE		2. a

Identify each of the following examples of job information by writing in the type of information it is—job requirement, job description, or job future. The first one is answered for you.

ability (able to type 35 words per minute) chances for advancement (advance to manager in two y	
	d.
	ars
working conditions (work outdoors)	
education and/or training (high school diploma required)
pay (earn \$9,700-\$11,500 a year)	
job outlook (need for workers in this career will decreas)
special licenses or certification (pilot's license required)
work experience (two year's work experience needed)	1

(37)

Name			 	
	* *		. *-	
Date *				
Dare			 	

Self-Test

Objective 3

List three major types of job information to collect before you decide on an occupation, and give an example of each type.

Type of Information	Example		
•	•		<u>, st.</u>
•			
		- ·	

Turn the page to check your answers

How to Get Information about Occupations

Just as there are many ways to find out more about yourself, there are many good sources of information about occupations. Some sources, such as books and magazines, provide more information than others. Workers in an occupation can tell you things about their jobs that you may not be able to find out anywhere else. Materials distributed by state or local groups and agencies are good sources of up-to-date information about jobs in your area. As you can see, you'll get more complete information about an occupation if you use as many different sources as possible. Here are some good ways to find out about an occupation.



Talk with people who work in that occupation. If you don't know anyone to talk to, maybe your parents or friends do. Ask them to introduce you.

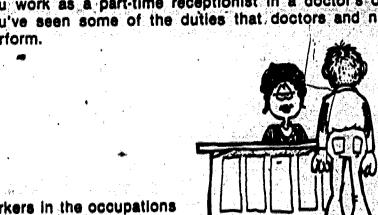


Ask your guidance counselor or occupational specialist for information about different occupations.

Observe workers on the job. This is a great way to find out what the work is really like in a particular occupation.



Think about your own work experience. What kinds of jobs have the people you've worked with done? For example, if you work as a part-time receptionist in a doctor's office, you've seen some of the duties that doctors and nurses perform.



interview employers who hire workers in the occupations that you are interested in. They are a good source of first-hand information.





Read about occupations. Ask the librarian in your school or city library to show you some books and magazines about different occupations. For example, Worklife and the Occupational Outlook Quarterly are two magazines that have articles about occupations.



Talk to members and officers of different trade unions.

Write to professional groups for information about particular occupations. For example, if you are interested in becoming a barber, write to the National Association of Barber Schools. There's a list of helpful addresses on page 102.



Reading about Occupations

Books and magazines are excellent sources of occupational information. Most schools and public libraries have reference materials in which you can look up different occupations. If your instructor doesn't have copies of these, ask your school librarian, guidance counselor, or occupational specialist to help you get copies. Here are three printed sources of occupational information that can be found in many schools:

- Occupational Outlook Handbook
- Dictionary of Occupational Titles
- Project VIEW.

Contained in these materials are the job description, the job requirements, and the job future of almost any career you want to learn about. These references are handy and easy to use, with all the information you need in one place. In addition to occupational information, each one contains a list of other sources that you can use, or write for, to get more information about a particular occupation.

The Dictionary of Occupational Titles and Occupational Outlook Handbook are books; Project VIEW is a set of cards you use with a viewer. The occupational specialist and school librarian can help you get copies of these materials and show you how to use them. If your school does not have these references, ask if they have other sources of information about occupations that you can use. Here's what these sources contain.

The Dictionary of Occupational Titles is printed by U.S. Department of Labor. It describes about 35,000 jobs, using a code number to tell about each job in terms of type of work performed, worker requirements, training required, physical demands, and working conditions. Your school library probably has a copy.

The Occupational Outlook Handbook is shown in the samples on page 49 and on page 82. This book is available in many school libraries, too. The student in the following activity used it to get information about drafting as an occupation. You'll be using the Occupational Outlook Handbook to do the activity on the next few pages.

The letters in *Project VIEW* stand for Vital Information for Education and Work. It is made up of several decks of cards that have been photographed on film. The print on the film is very small and can only be read through a viewer called a reader. Each card contains information about an occupation,



including a job description, job requirements, and required education or training. Because these calds are updated on a regular basis, they provide current information about occupations. Ask your school librarian or occupational specialist if your school has a set.

Some schools have shadowing programs, which provide students an opportunity for observing workers on the job. More than a class field trip to a job site, shadowing allows a selected student to spend extended time—sometimes as much as a week or more—with workers employed in an occupation that the student is interested in. Studen. Studen pating in these programs can see firsthand the auties performed, the working conditions, and the daily activities of workers in a chosen career.



Activity:

Using the Occupational Outlook Handbook

Drew Lyons likes to draw and thinks he might be interested in becoming a drafter. He got a copy of the Occupational Outlook Handbook and looked up drafter in the index in the back. Then he read the article about drafters and used the information he found to fill out the Exploring Occupations Worksheet on page 51. (This worksheet is simply a form on which you can conveniently write the information you find about an occupation.)

In this activity, you'll see how Drew used the Occupational Outlook Handbook to fill out the worksheet. You'll need to know how so that you can fill out your own Exploring Occupations Worksheet on two other occupations later in this booklet.

Here's what to do.

Read the information about drafters on these pages. (They're taken from the Occupational Outlook Handbook.) Each of the circled numbers (1) to 10) on these pages is written next to certain kinds of important information about drafters.

ZRead the sample Exploring Occupations Worksheet that Drew filled out on page 51.

Write the circled number from the Occupational Outlook Handbook next to the area on the Exploring Occupations Worksheet where Drew wrote that information. (1) has already been written for you next to "Title of occupation to be explored.")

The circled numbers show the information that Drew used to fill out his worksheet. Write/the circled number on the Exploring Occupations Worksheet where Drew wrote the information.



(D.O.T. 001.281, 002.281, 003.281, 005.281, 007.281, 010.281, 014.281, and 017.)

Nature of the Work

When making a space capsule, television set, building, or bridge, workers follow drawings that show the exact dimensions and specifications of the entire object and each of its parts. Workers who draw these plans are drafters.

Drafters prepare detailed drawings based on rough sketches, specifications, and calulations made by engineers, architects, and designers. They also calculate the strength, quality, quantity, and cost of materials. Final drawings contains a detailed view of the object as well as specifications for materials to be used, procedures followed, and other information to carry out the job.

In preparing drawings, draftersuse compasses, dividers, protractors, triangles, and machines that combine the functions of several devices. They also use engineering handbooks, tables, and slide rules to help solve technical problems.

Drafters are classified according to the work they do or their level of responsibility. Senior drafters translate an engineer's or architect's preliminary plans into design 'layouts" (scale drawings of the object to be built). Detailers draw each part shown on the layout, and give dimensions, materials, and other information to make the detailed drawing clear complete. Checkers carefully examine drawings for errors in computing or recording dimensions and specifications. Under the supervision of drafters, tracers make minor corrections and trace drawings for reproduction on paper or plastic Nm.

From: U.S. Department of Labor. Sureau of Labor Statistics. Occupational Outlank Handbook, 1976-77 Edition. Sullatin 1875.

Drafters may specialize in a perticular field of work, such as machanical, electrical, electronic, aeronautical. structural. architectural drafting.

Places of Employment

About 313,000 persons-8 percent of them women-worked as drafters in 1974. More than 9 out of 10 drafters worked in private industry, with engineering and architectural firms employing almost 30 percent of all drafters. Other major employers included the fabricated metals, electrical equipment, and construction industries.

About 20,000 drafters worked for Federal, State, and local governments in 1974. Most drafters in the Federal Government worked for the Defense Department; those in State and local governments were mainly in highway and public works departments. Another several thousand drafters worked for colleges and universities and nonprofit organizations.

Training, Other Qualifications. and Advancement

Persons interested in becoming drafters can acquire the necessary training in technical institutes, junior and community colleges, extension divisions of universities, and vocational and technical high schools. It is also possible to qualify through on-the-job training programs combined with pert-time schooling or 3- to 4-year apprenticeship programs.

Training for a career in drafting. whether in a high school or post-y high school program, should include courses in mathematics. mechanical sciences. physical drawing, and drafting. Shop practices and shop skills also are helpful since many higher level drafting jobs require knowledge of manufacturing or construction methods. Many technical schools offer courses in structural design, strength of materials, and metal technology.

Those planning careers in drafting should be able to do detailed work requiring a high degree of accuracy; have good eyesight and eye-hand coordination because most of T their work is done at the drawing board; be able to function as part of a team since they work directly with engineers, architects, and skilled workes; and be able to do freshand draw gs of three-dimensional objects. Artistic ability is helpful in some specialized fields.

High school graduates usually start out as tracers. Those having post-high school technical training usually qualify as junior drafters. After gaining experience, they may advance to checkers, detailers, senior drafters, or supervisors. Some may become independent designers. Courses in engineering and mathematics sometimes enable drafters to transfer to engineering positions.

Employment Outlook

Employment of drafters is expected to increase faster than the average for all occupations. This growth, along with the need to replace those who retire, die, or move into other fields of work. should provide favorable job opportunities through the mid-1980's. Holders of an associate (2-year) degree in drafting will have the best prospects. Many large employers already require post-secondary technical education, though wellqualified high school graduates who have studied drafting will find opportunities in some types of jobs.

Employment of drafters is expected to rise rapidly as a result of the increasingly complex design problems of modern products and processes. In addition, more drafters will be needed as supporting personnel for engineering and Phoscientific occupations. toreproduction of drawings and expending use of electronic drafting equipment and computers, however, will reduce the need for less

skilled drafters.

Earnings

in private industry, beginning drafters earned between \$560 and \$740 a month in 1974; more experienced drafters earned from 5700 to 5900 a month. Senior draft. ers averaged roughly \$1,000 a month, about one and one-half times as much as the average earnings of nonsupervisory workers in private industry, except farming.

The Federal Government paid drafters having an associate degree starting salaries of \$7,596 a year in late 1974. Those with less education and experience generally started at \$6,764. The average Federal Government salary for all drafters was \$10,400 a year.

Seurces of Additional laternetten

General information on careers for drafters is available from:

trican Institute for Design and Drafting. 3119 Price Rd., Bordoville, Ohle. 74003.

Disternational Pederation of Professional and Technical Engineers, 1126 16th St. NW., Washington, D.C. 20036.

See Sources of Additional Information in the statement on Engineering and Science Technicions elsewhere in the Handbook.

From: U.S. Department of Labor. Bureau of Labor Statistics. Occupational Outlook Handbook. 1976-77 Edition. Buildin 1875.

(50)

EXPLORING OCCUPATIONS WORKSHEET

Student's Name DREW LY	ONS	Date	<u>3, 1977</u>
Title of occupation to be explored	O DRAFTER		And the second s
List the names of books or other m	aterials used, or persons interviewed		•
	UTLOOK HANDBOOK	, , , , , , , , , , , , , , , , , , ,	·
Job Requirements			
What education and/or training is n	eeded? HIGH SCHOOL OF POST HIE	SCHOOL (SUCH AS TECH	HICAL OR
DRADING, AND DRAFTING. List any special abilities needed (ve	NTY COLUEGES) WITH COURSES erbal, numerical, mechanical, etc.) <u>MR</u>	N ACCURACY, GOOD EY	ESIGHT, EYE-
HAND COORDINATION, FREE	HAND DRAWING, ABLE TO WO	RK AS PART OF A TE	<u>am.</u>
Do you need a license or special ce	rtificate to do this work?		•
List any other requirements for this	occupation		
Job Description	q		4
What are the duties? PREPARING	DETAILED DRAWINGS BASED ON	ROOSA SKETCHES, SPEC	IFICATIONS, T
CALCULATIONS MADE BY ENGH	NECRS, ARCHITECTS, T. DESIGNERS	CALCULATING THE ST	RENGH QUALITY,
I SPECIFICATIONS TO BE FOLID	NS. MAKING FWAL DRAWINGS WED, PROCEDURES, OTHER INFO lat are related to this occupation. (This	NECHOSMAN TO CARRY	OUT THE GOOD
	Ference =	outdoor persi	uasive al service
Check (~) any special working con	ditions associated with this occupation	n. ·	<u>&</u>
routine, unchanging work work that changes a lot work under supervision work without supervision work mostly with others work mostly alone	very little movement heavy physical work dangerous work night or weekend work extreme heat or cold get dirty or greasy	☐ high pressure work ☐ much travel ☑ all inside work	,
Does the occupation have any other	r special working conditions? Describe	them.	
•	TO DO DETAILED WORK.		
What is the pay or pay range for this	· · · · · · · · · · · · · · · · · · ·	O PER" MONTH.	
Job Future	,		
What are the chances for advancen	nent within this occupation? VERY GO	DOD YOU CAN MOVE UP	FROM A
JUNIOR DRAFTER TO A CHECK	ER , TO A DETAILER , T EVENTUAL	Y TO A STAIGH DA	APTER.
What are the chances for staying e	mployed in this occupation (employme	nt outlook)?	,
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Check your work here. EXPLORING OCCUPATIONS WORKSHEET

Student's Name	DREW LYON	<u> </u>	`	Date	MAY 13, 1977	_
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Talking about Occupations

You can get some good, concrete facts about an occupation by reading the Occupational Outlook Handbook, the Dictionary of Occupational Titles, and Project VIEW. However, to get information about jobs you don't find listed, or to find out more about the job duties, employment opportunities, or salary in your state, you'll need to look elsewhere.

One of the best ways to find out more about a particular occupation is to talk with someone who does that kind of work or supervises workers in that area. These tips can help you set up and conduct a good interview with such a person.

- 1. Always be polite.
- 2. Telephone for an appointment. Make sure that it is a good time for the person you are interviewing.
- 3. Write down the questions you plan to ask and take them with you.
- 4. Introduce yourself.
- 5. Tell the person why you are interested in finding out about his/her occupation.
- 6. Take along a pad and pencil and write down the answers to each question you ask.
- 7. Thank the person.

After the interview, fill out an Exploring Occupations Worksheet on that occupation. (There are extra copies at the back of this booklet.) Use the notes you took at the interview to help you fill it out. Keep this worksheet and the other information you gather about occupations in one place. Then you'll have your own collection of information about the occupations you're interested in.

What are the chances for staying employed in this occupation (employment outlook)?

Geod Employment of Drafters Should Increase Faster Than The Average of All Occupation (of Your Opinion ...

What are the major advantages of this occupation? You CAN MOVE UP IN THIS OCCUPATION FOUR

VEARS OF COULEGE ARE NOT NECESSARY.

What are the major disadvantages of this occupation? You MUST SIT ALL DRY BEHIND A DESK

DOING CLOSE DETAILED ROUTINE WORK.

Turn the page to check your answers.

(51)



What are the chances for advancement within this occupation? VERY GOOD. YOU CAN MOVE UP FROM A

JUNDA DRAFTER TO A CHECKER TO A DETAILER T EVENTUALLY TO A SENIOR DRAFTER.

What are the chances for staying employed in this occupation (employment outlook)?

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In Your Opinion ...

What are the major advantages of this occupation? You CAN MOVE UP IN THIS OCCUPATION. FOUR

VEARS OF COLLEGE ARE NOT NECESSARY.

What are the major disadvantages of this occupation? You MUST SIT ALL DAY BEHNO A DESK

DOING CLOSE, DETAILED, ROUTINE WORK.

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(53)

